

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): An electronic camera comprising:

a photographic lens configured to form an object image;

an image sensing element configured to photoelectrically convert the formed object image;

a light guiding device configured to guide incident light from an object, which is incident from the photographic lens, to a first optical path to the image sensing element and a second optical path different from the first optical path;

a holding frame structure made of a heat-conducting material and configured to surround and fix the image sensing element and the light guiding device, so as to hold the image sensing element and the light guiding device in the electronic camera, wherein the holding frame structure ~~comprising~~ comprises an intimately contacting member formed of a plate member larger than the image sensing element, made of a heat-conducting material, and intimately contacting with the image sensing element to transfer heat generated by the image sensing element, and a heat-transfer frame member made of a heat-conducting material and surrounding the light guiding device, such that the intimately contacting member and the heat-transfer frame member intimately contact with each other to transfer heat generated by the image sensing element through the intimately contacting member to the heat-transfer frame member; and

29 a lens casing configured to accommodate the
30 photographic lens, the lens casing comprising a heat-
31 radiating portion made of a heat-conducting material and
32 configured to radiate heat to an outside of the camera,
33 wherein the holding frame structure and the lens
34 casing are arranged such that heat from the heat-transfer
35 frame intimately contacting member is conducted to the
36 heat-radiating portion of the lens casing.

Claims 2-6 (canceled)

1 Claim 7 (original): The camera according to claim 1,
2 wherein the light guiding device comprises an optical
3 path switching device configured to switch first and
4 second states in which the incident light is output to
5 the first and second optical paths, respectively.

1 Claim 8 (original): The camera according to claim 7,
2 wherein the optical path switching device comprises a
3 movable mirror.

1 Claim 9 (currently amended): An electronic camera
2 comprising:
3 a photographic lens configured to form an object
4 image;
5 an image sensing element configured to
6 photoelectrically convert the formed object image;
7 a light guiding device configured to guide incident
8 light from an object, which is incident from the
9 photographic lens, to a first optical path to the image
10 sensing element and a second optical path different from
11 the first optical path;

12 a holding frame structure made of a heat-conducting
13 material and configured to surround and fix the image
14 sensing element and the light guiding device, so as to
15 hold the image sensing element and the light guiding
16 device in the electronic camera, wherein the holding
17 frame structure ~~comprising~~ comprises an intimately
18 contacting member formed of a plate member larger than
19 the image sensing element, made of a heat-conducting
20 material, and intimately contacting with the image
21 sensing element to transfer heat generated by the image
22 sensing element, and a heat-transfer frame member made of
23 a heat-conducting material and surrounding the light
24 guiding device, such that the intimately contacting
25 member and the heat-transfer frame member intimately
26 contact with each other to transfer heat generated by the
27 image sensing element through the intimately contacting
28 member to the heat-transfer frame member;

29 an outer casing configured to accommodate the image
30 sensing element, the light guiding device, and the
31 holding frame structure, the outer casing comprising a
32 heat-radiating portion made of a heat-conducting material
33 and configured to radiate heat to an outside of the
34 camera; and

35 a lens casing configured to accommodate the
36 photographic lens, the lens casing comprising a heat-
37 radiating portion made of a heat-conducting material and
38 configured to radiate heat to an outside of the camera,

39 wherein the holding frame structure, the outer
40 casing, and the lens casing are arranged such that heat
41 from the heat-transfer frame intimately contacting member
42 is conducted to both the heat-radiating ~~portions~~ portion

43 of the outer casing and the heat-radiating portion of the
44 lens casing.

Claims 10-14 (canceled)

1 Claim 15 (original): The camera according to claim 9,
2 wherein the light guiding device comprises an optical
3 path switching device configured to switch first and
4 second states in which the incident light is output to
5 the first and second optical paths, respectively.

1 Claim 16 (original): The camera according to claim 15,
2 wherein the optical path switching device comprises a
3 movable mirror.

1 Claim 17 (currently amended): An electronic camera
2 comprising:
3 a photographic lens configured to form an object
4 image;
5 an image sensing element configured to
6 photoelectrically convert the formed object image;
7 a light guiding device configured to guide incident
8 light from an object, which is incident from the
9 photographic lens, to a first optical path to the image
10 sensing element and a second optical path different from
11 the first optical path;
12 a holding frame structure made of a heat-conducting
13 material and configured to surround and fix the image
14 sensing element and the light guiding device, so as to
15 hold the image sensing element and the light guiding
16 device in the electronic camera, wherein the holding
17 frame structure ~~comprising~~ comprises an intimately

18 contacting member formed of a plate member larger than
19 the image sensing element, ~~which is~~ made of a heat-
20 conducting material, and intimately ~~contacts~~ contacting
21 with the image sensing element to transfer heat generated
22 by the image sensing element, and a heat-transfer frame
23 member ~~formed~~ made of a ~~box member, which is made of~~
24 ~~heat-conducting material, surrounds~~ and surrounding the
25 light guiding device, such that ~~and is thermally~~
26 ~~connected to~~ the intimately contacting member and the
27 heat-transfer frame member intimately contact with each
28 other to transfer heat generated by the image sensing
29 element through the intimately contacting member to the
30 heat-transfer frame member; and

31 an outer casing configured to accommodate the image
32 sensing element, the light guiding device, and the
33 holding frame structure, the outer casing comprising a
34 heat-radiating portion made of a heat-conducting material
35 and configured to radiate heat to an outside of the
36 camera,

37 wherein the holding frame structure and the outer
38 casing are arranged such that the heat-radiating portion
39 of the outer casing is thermally connected to the heat-
40 transfer frame member, and heat from the heat transfer
41 frame ~~intimately contacting~~ member is conducted to the
42 heat-radiating portion of the outer casing.

Claims 18-20 (canceled)

1 Claim 21 (original): The camera according to claim 17,
2 wherein the light guiding device comprises an optical
3 path switching device configured to switch first and

4 second states in which the incident light is output to
5 the first and second optical paths, respectively.

1 Claim 22 (new): The camera according to claim 1, further
2 comprising:

3 a second plate member made of a heat-conducting
4 material,

5 wherein the second plate member is directly and
6 intimately connected to both the holding frame structure
7 and the lens casing such that heat from the heat-transfer
8 frame member is conducted to the heat-radiating portion
9 of the lens casing via the second plate member.

1 Claim 23 (new): The camera according to claim 22 wherein
2 the second plate member is directly and intimately
3 connected to the heat-transfer frame member.

1 Claim 24 (new): The camera according to claim 9, further
2 comprising:

3 a second plate member made of a heat-conducting
4 material,

5 wherein the second plate member is directly and
6 intimately connected to all of (1) the holding frame
7 structure, (2) the outer casing and (3) the lens casing
8 such that heat from the heat-transfer frame member is
9 conducted, via the second plate member, to both the
10 heat-radiating portion of the outer casing and the
11 heat-radiation portion of the lens casing.

1 Claim 25 (new): The camera according to claim 24 wherein
2 the second plate member is directly and intimately
3 connected to the heat-transfer frame member.

1 Claim 26 (new): The camera according to claim 17,
2 further comprising:

3 a second plate member made of a heat-conducting
4 material,

5 wherein the second plate member is directly and
6 intimately connected to both the holding frame structure
7 and the outer casing such heat from the heat transfer
8 frame member is conducted to the heat-radiating portion
9 of the outer casing via the second plate member.

1 Claim 27 (new): The camera according to claim 26 wherein
2 the second plate member is directly and intimately
3 connected to the heat-transfer frame member.